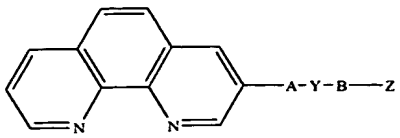
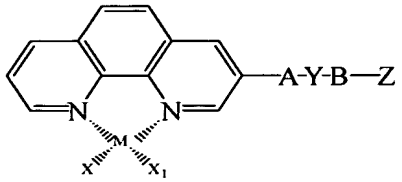
44. (Twice Amended) A compound represented by one of the formulae:





wherein

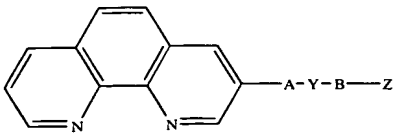
M is a transition metal ion;

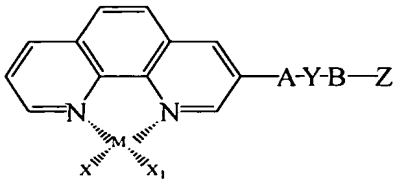
the A-Y-B moiety is selected from the group consisting of -C≡C-, -CH=CH-, -N=N-, and -CH=N-;

X and X_1 are co-ligands and wherein at least one of X and X_1 is present; and

Z is a nucleosidyl moiety attached via the base.

45. (Twice Amended) A compound represented by one of the formulae:





wherein

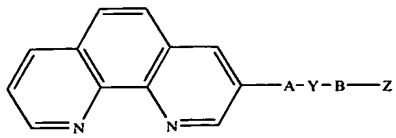
M is a transition metal ion;

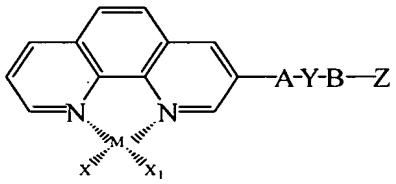
the A-Y-B moiety is selected from the group consisting of -C≡C-, -CH=CH-, -N=N-, and -CH=N-;

X and X_1 are co-ligands and wherein at least one of X and X_1 is present; and

Z is a nucleotidyl moiety attached via the base.

46. (Twice Amended) A compound represented by one of the formulae:





G1 concld

wherein

M is a transition metal ion;

the A-Y-B moiety is selected from the group consisting of -C≡C-, -CH=CH-, -N=N-, and -CH=N-;

X and X_1 are co-ligands and wherein at least one of X and X_1 is present; and,

Z is a nucleic acid moiety attached via a base.

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48. (Twice Amended) A compound represented by one of the formulae:

G2